

What is claimed is:

1. A method for degrading polylactide resins, wherein the polylactide resins are degraded by an actinomycete belonging to a genus selected from the group consisting of *Saccharothrix*, *Streptoalloteichus*, *Kibdelosporangium*, *Lentzea*, *Actinokineospora*, *Saccharomonospora*, *Saccharopolyspora*, and *Actinopolyspora*.

2. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Saccharothrix*. ✓

3. The method for degrading polylactide resins according to claim 2, wherein the actinomycete is at least one bacterium selected from the group consisting of *Saccharothrix flava*, *Saccharothrix coeruleofusca*, *Saccharothrix longispora*, *Saccharothrix australiensis*, *Saccharothrix mutabilis* subsp. *mutabilis*, *Saccharothrix aerocolonigenes* subsp. *aerocolonigenes*, *Saccharothrix syringae*, *Saccharothrix coeruleoviolacea*, *Saccharothrix cryophilis*, *Saccharothrix espanaensis*, *Saccharothrix texasensis*, and *Saccharothrix waywayandensis*.

4. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Streptoalloteichus*. ✓

5. The method for degrading polylactide resins according to claim 4, wherein the actinomycete is *Streptoalloteichus hindustanus*. †

6. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Kibdelosporangium*. ✓

7. The method for degrading polylactide resins according to claim 6, wherein the actinomycete is *Kibdelosporangium aridum*. †

8. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Lentzea*. —

9. The method for degrading polylactide resins according to claim 8 wherein the actinomycetes is *Lentzea albidocapillata*.

10. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Actinokineospora*. —

11. The method for degrading polylactide resins according to claim 10, wherein the actinomycete is *Actinokineospora riparia*. —

12. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Saccharomonospora*. +

13. The method for degrading polylactide resins according to claim 12, wherein the actinomycete is *Saccharomonospora azurea*. +

14. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Saccharopolyspora*. +

15. The method for degrading polylactide resins according to claim 14, wherein the actinomycete is *Saccharopolyspora erythraea* or *Saccharopolyspora hordei*. +

16. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Actinopolyspora*. +

17. The method for degrading polylactide resins according to claim 16, wherein the actinomycete is *Actinopolyspora halophila* or *Actinopolyspora mortivallis*. +

18. A preparation in the form of a liquid, powder, or solid for degrading polylactide resins, wherein the preparation contains at least one actinomycete selected from the group consisting of <sup>Acti. noc.</sup> *Saccharothrix flava*, <sup>Acti.</sup> *Saccharothrix coeruleofusca*, <sup>Acti.</sup> *Saccharothrix longispora*, <sup>Acti.</sup> *Saccharothrix australiensis*, <sup>Streptomyces</sup> *Saccharothrix mutabilis* subsp. *mutabilis*, <sup>Streptomyces</sup> *Saccharothrix aerocolonigenes* subsp. *aerocolonigenes*, *Saccharothrix syringae*, *Saccharothrix coeruleoviolacea*, *Saccharothrix cryophilis*, *Saccharothrix espanaensis*, *Saccharothrix texasensis*, *Saccharothrix waywayandensis*, <sup>Acti. noc.</sup> *Streptoalloteichus hindustanus*, *Kibdelosporangium aridum*, *Lentzea albidocapillata*, *Actinokineospora riparia*, *Saccharomonospora azurea*, *Saccharopolyspora erythraea*, *Saccharopolyspora hordei*, *Actinopolyspora halophila*, and *Actinopolyspora mortivallis*.